

memorandum

Materials & Physical Data Group (XCP-5)

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Date: May 31, 2018

Subject: Foreign Travel Report for Trip to AWE and WPEC

In May 2018, Wim Haeck and Jeremy Conlin traveled to Europe to meet with colleagues and collaborate together. We visited four different sites:

AWE; Reading, England: Friday, May 11, 2018.

At AWE (Atomic Weapons Establishment), we met with Mark Cornock and Tim Gaines. Mark and Tim are colleagues at AWE who process nuclear data and use NJOY. We discussed ways in which we can collaborate on NJOY21 development as well as work on Generalized Nuclear Data Structure (GNDS) related projects.

OECD; Paris, France: May 14–17, 2018.

Our visit to OECD was part of the annual meeting of the Working Party on International Nuclear Data Evaluation Co-operation (WPEC). We participated in the following subgroups:

- Subgroup 45: This subgroup (chaired by Morgan White) is working to collate a large collection of benchmarks (including criticality benchmarks) used to validate nuclear data and transport codes. Jeremy and Wim have done NCSP-funded work in benchmarking of nuclear data and provided our expertise to this subgroup
- Subgroup B: This subgroup is tasked with the long-term maintenance and development of GNDS. Wim and Jeremy have been active participants in the development of GNDS for several years.
- Subgroup 43: This subgroup is tasked with providing tools for working with GNDS-formatted data. These include an API and an implementation that works with the API. Jeremy Conlin co-chairs this subgroup and therefore, played a leading role. Both Wim and Jeremy presented at this subgroup meeting.

NEA; Paris, France: May 17, 2018.

Wim was asked by Luca Fiorito (NEA staff member working on nuclear data processing and validation) to review a couple of issues encountered when processing JEFF 3.3 using the latest NJOY 2016 version and help establish the severity rating of NJOY messages encountered during processing (to be handled by an automated system). Wim also showed him how to use the NJOY repository on GitHub to submit any future issues.

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IRSN; Paris, France: May 18, 2018.

Wim visited IRSN to provide support for local NJOY2016 use and ongoing ENDF/B-VIII.0 processing. Needs and requirements for the WPEC Subgroup 45 were also discussed.